

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 05192278  
PUBLICATION DATE : 03-08-93

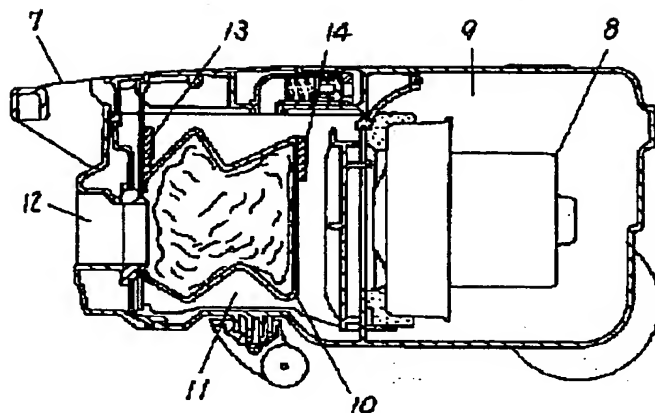
APPLICATION DATE : 20-01-92  
APPLICATION NUMBER : 04007347

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : ISHIBASHI TAKAFUMI;

INT.CL. : A47L 9/20

TITLE : VACUUM CLEANER



**ABSTRACT :** **PURPOSE:** To provide the vacuum cleaner in which a dust collection bag is scarcely clogged even if fine dust is sucked in and suction force is maintained, and use-ability and maintainability are satisfactory.

**CONSTITUTION:** The vacuum cleaner is provided with a motor chamber 9 in which a suction motor 8 is contained, and a dust collection chamber 11 in which a dust collection bag 10 is contained, and in the front part of the dust collection chamber 11, a vibrator 13 is provided, and in the rear part of the dust collection bag 10, a piezoelectric vibrator 14 is provided. In the dust collection chamber 11, the vibrator 13 and the piezoelectric vibrator 14 are provided with the dust collection bag 10 placed vertically between them. In the dust collection chamber 11, an electromagnetic vibrator is provided so as to come into contact with the lower part of the dust collection bag 10.

**COPYRIGHT:** (C)1993,JPO&Japio